

### Abstract

The invention provides a wireless base station connected to a wireless network control device, another wireless base station and a subscriber unit, comprising a first communication device for receiving / transmitting downlink data frames / uplink data frames from/to the wireless network control device; a second communication device for transmitting / receiving downlink wireless signals / uplink wireless signal to/from the subscriber unit; a channel processing device for processing the downlink data frames / uplink wireless signals into downlink wireless signals / uplink data frames; and a signal distribution unit for supplying the downlink data frames and the uplink wireless signals to the channel processing device for processing, wherein the base station further comprising a third communication device for communicating with the another base station, and the signal distribution unit further comprising forwarding control means for transmitting the downlink data frames or uplink wireless signals to the another wireless base station and receiving corresponding downlink wireless signals or uplink data frames from the another wireless base station, through the third communication device.